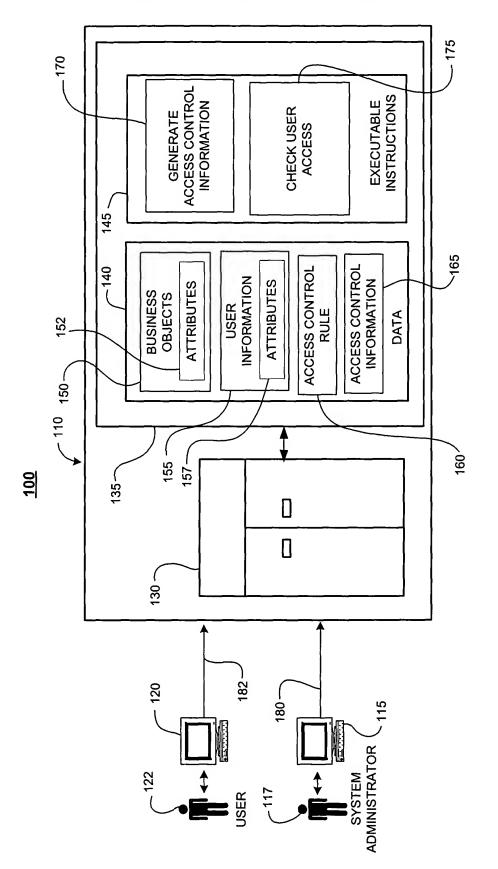
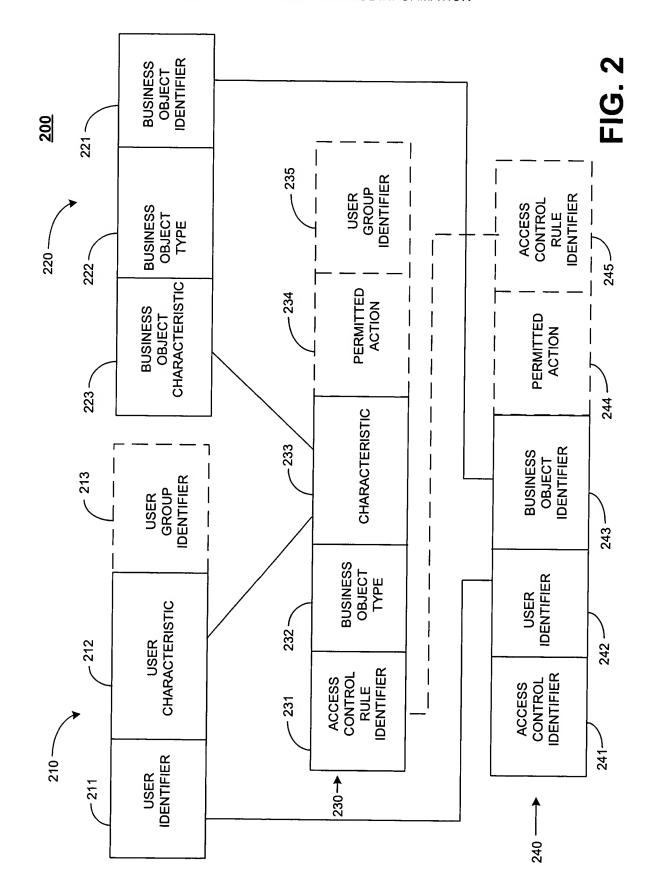
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MANAGING ACCESS CONTROL INFORMATION 300 **START** 310 RECEIVE ACCESS CONTROL RULE 320 BASED ON CHARACTERISTIC IDENTIFIED IN THE ACCESS CONTROL RULE. IDENTIFY USERS THAT HAVE THE IDENTIFIED CHARACTERISTIC 330 BASED ON CHARACTERISTIC IDENTIFIED IN THE ACCESS CONTROL RULE, IDENTIFY BUSINESS OBJECTS THAT HAVE THE IDENTIFIED **CHARACTERISTIC** 340 GENERATE ACCESS CONTROL INFORMATION TO ALLOW EACH USER HAVING THE IDENTIFIED CHARACTERISTIC TO ACCESS EACH BUSINESS **OBJECT HAVING THE IDENTIFIED CHARACTERISTIC** 350 STORE GENERATED ACCESS CONTROL INFORMATION

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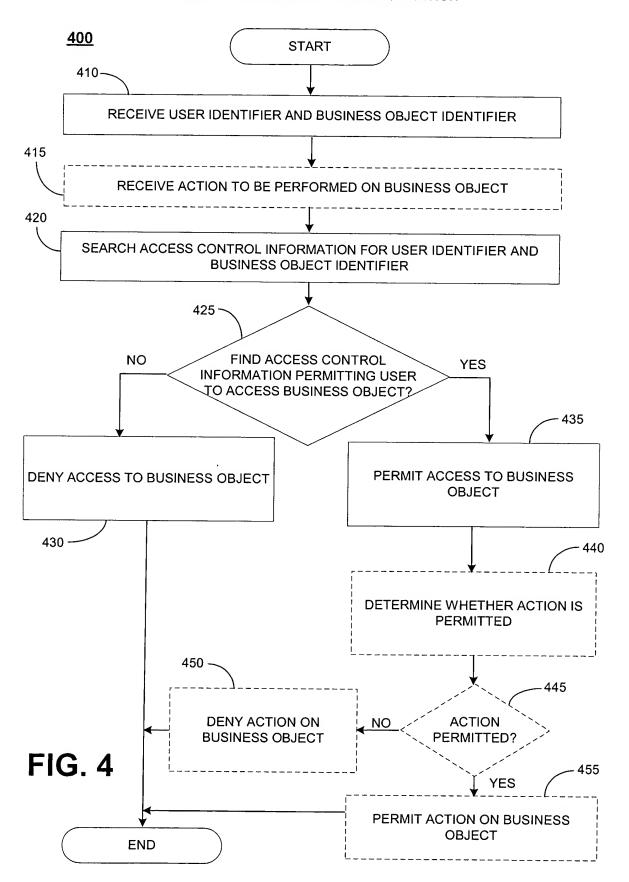
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FIG. 3

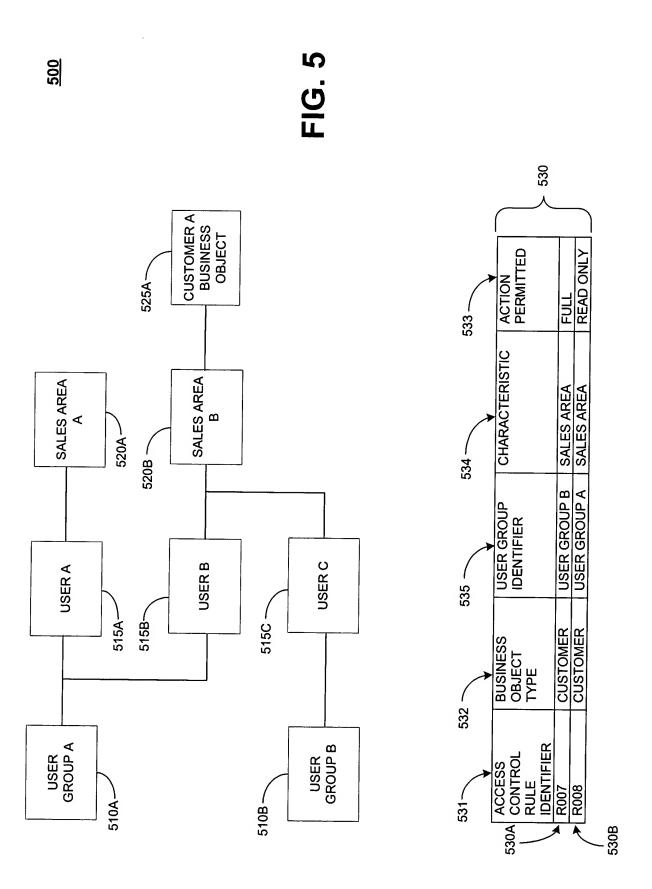
END

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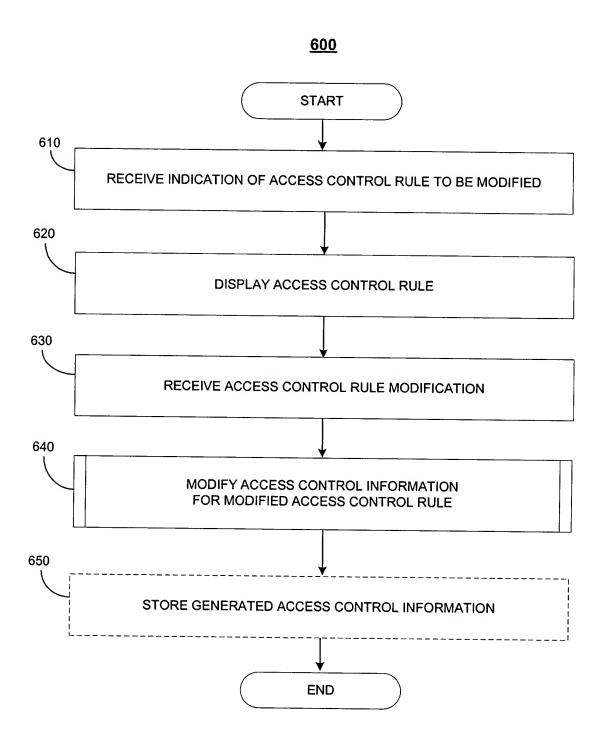
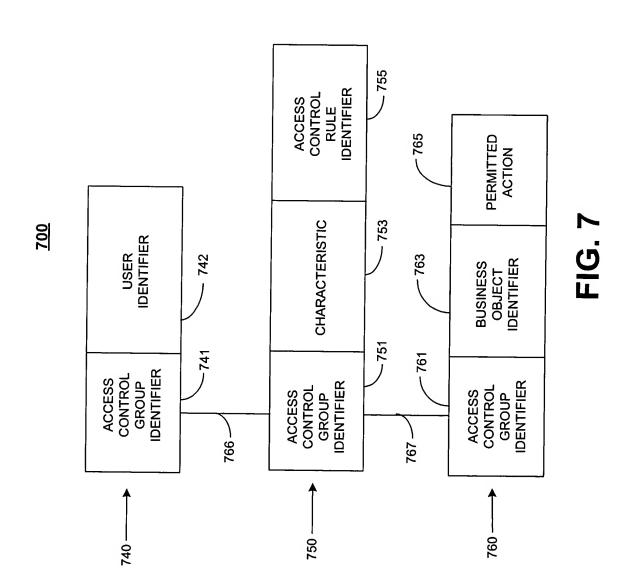


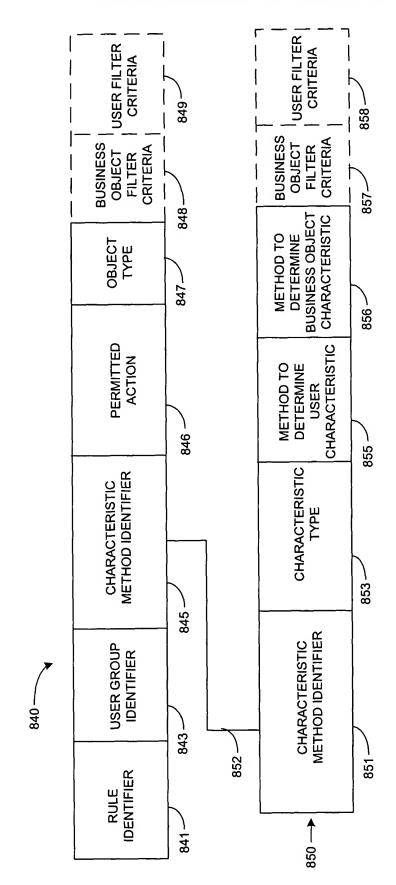
FIG. 6

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800

FIG. 8

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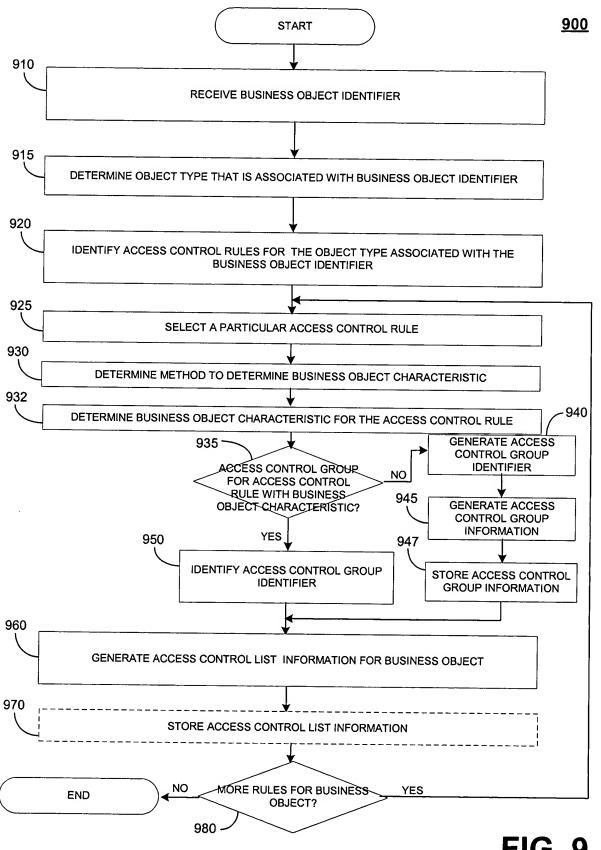
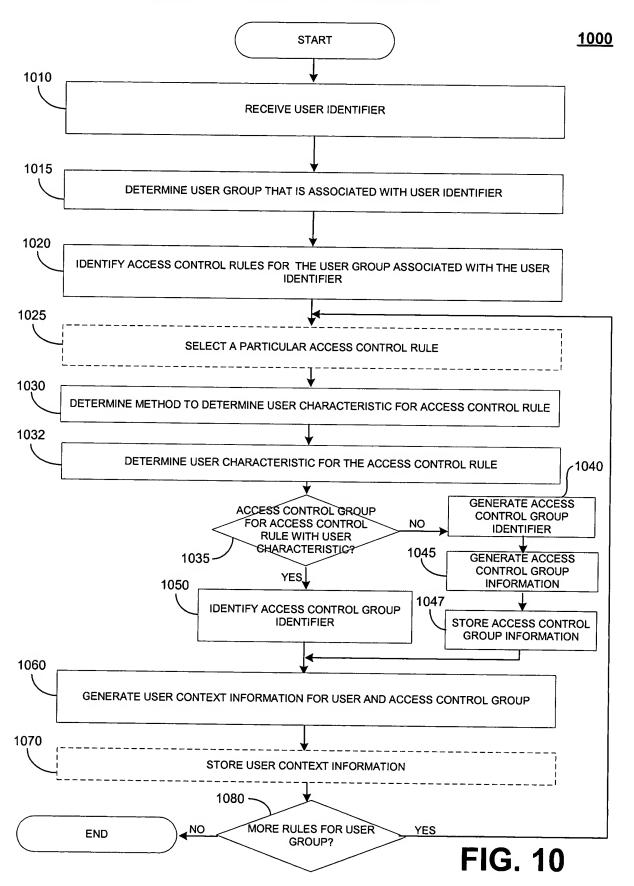


FIG. 9

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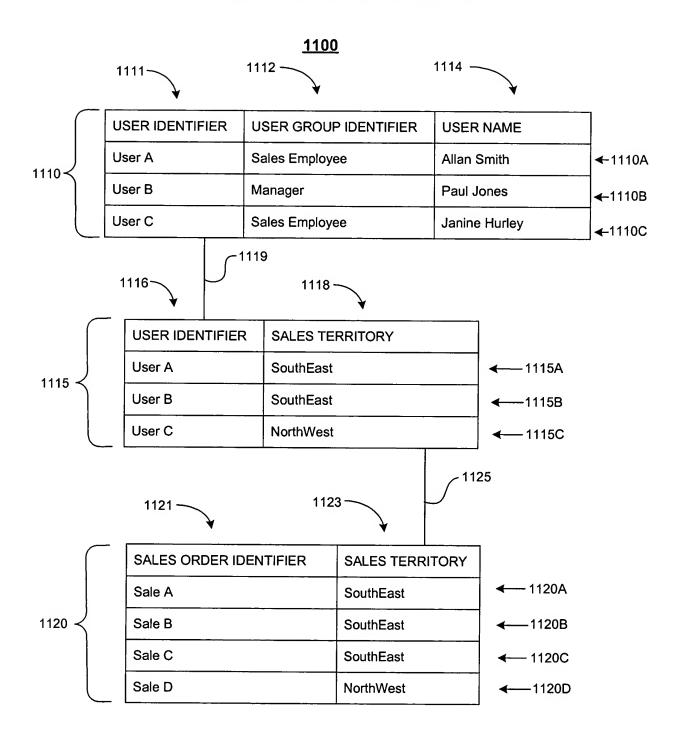


FIG. 11A

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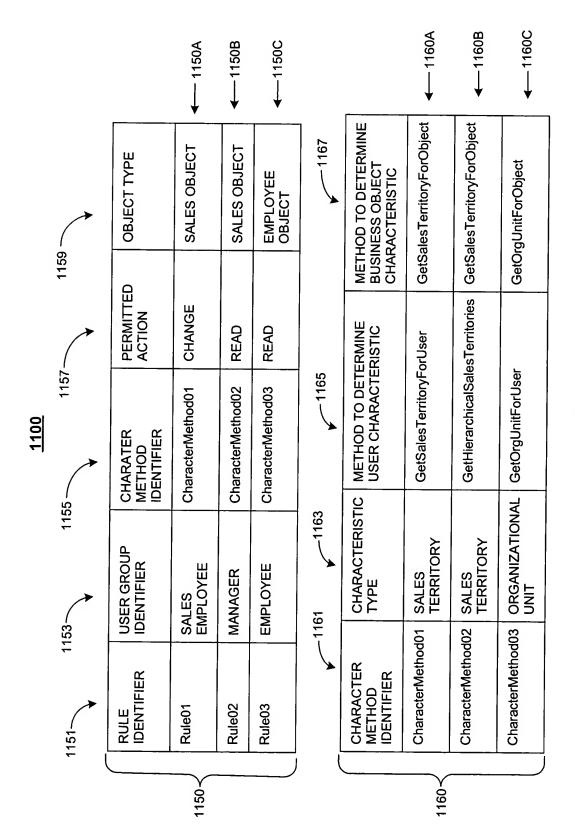


FIG. 11B

Applicant(s): Matthias Vogel et al. MANAGING ACCESS CONTROL INFORMATION 1200 1242 -1241-**USER IDENTIFIER** ACCESS CONTROL **GROUP IDENTIFIER ←** 1240A User A ACgroup1 1240 User B ACgroup2 -1240B User C ACgroup3 -1240C 1251-1253 -1255 1270-**ACCESS CONTROL CHARACTERISTIC ACCESS CONTROL GROUP IDENTIFIER RULE IDENTIFIER** ACgroup1 Sales Territory = SouthEast Rule01 **←** 1250A ACgroup2 Sales Territory = SouthEast Rule02 **←**-1250B ACgroup3 Sales Territory = NorthWest Rule01 **←**-1250C ACgroup4 Sales Territory = NorthWest Rule02 **←**1250D 1275-1261-1263 -1265 -**ACCESS CONTROL BUSINESS OBJECT** PERMITTED ACTION **GROUP IDENTIFIER IDENTIFIER** ACgroup1 Sale A Read, Write **←**1260A ACgroup2 Sale A Read **←**1260B ACgroup1 Sale B Read, Write **←**-1260C 1260 ACgroup2 Sale B Read **←**-1260D ACgroup1 Sale C Read, Write **←**-1260E ACgroup2 Sale C Read **←**1260F

ACgroup3

ACgroup4

Sale D

Sale D

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FIG. 12

←1260G

←1260H

Read, Write

Read

MANAGING ACCESS CONTROL INFORMATION <u>1300</u> **START** 1310 RECEIVE USER IDENTIFIER AND BUSINESS OBJECT IDENTIFIER 1315 RECEIVE ACTION TO BE PERFORMED ON BUSINESS OBJECT 1317 ACCESS ACCESS CONTROL LIST INFORMATION AND USER CONTEXT INFORMATION 1320 DETERMINE WHETHER AN ACCESS CONTROL GROUP IDENTIFIER IS ASSOCIATED WITH BOTH THE RECEIVED USER IDENTIFIER AND THE RECEIVED BUSINESS OBJECT IDENTIFIER 1325-1335 -1330 -CORRESPONDING NO **DENY ACCESS TO** YES PERMIT ACCESS TO ACCESS CONTROL **BUSINESS OBJECT BUSINESS OBJECT** GROUP IDENTIFIER2 1340 **DETERMINE WHETHER ACTION IS PERMITTED** 1345 1350 -**ACTION** DENY ACTION ON BUSINESS PERMITTED? **OBJECT** 1355 YES PERMIT ACTION ON BUSINESS **OBJECT END**

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FIG. 13